

KENTUCKY PUBLIC SERVICE COMMISSION

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Water Storage Requirement Deviation Request Application

Case 2005-00340

807 KAR 5:066, Section 4(4): Storage. The minimum storage capacity for systems shall be equal to the average daily consumption.

This form is intended to assist water utilities seeking a deviation from the requirements of 807 KAR 5:066, Section 4(4) and for permission to either maintain less water storage capacity than the average daily consumption or to obtain additional time to attain minimum storage capacity equal to the average daily consumption.

To request a deviation from the requirements of 807 KAR 5:066, Section 4(4), please complete the following application in full.

Utility: OLDHAM COUNTY WATER DISTRICT

Address: P.O. BOX 51

City: BUCKNER

State: KENTUCKY

Zip Code: 40010

Telephone Number: (502) 222-1690

Number of Customers: 7,385

County or Counties served: OLDHAM

HERNY(AVG. 22,000 PER DAY)

Are you requesting a deviation?

To maintain less water storage capacity than the average daily consumption?

For additional time to attain minimum storage capacity equal to the average daily consumption?

I. Contact Information

Please provide information for the person to whom correspondence or communications concerning this application should be directed:

Name: William D. Baker Sr. Title: Assistance Superintendent

Address: P.O. BOX 51

City: BUCKNER State: KENTUCKY Zip Code: 40010

Telephone Number: (502) 222-1690

II. Filing Requirements

Please submit an original and seven (7) copies of the completed application to:

Kentucky Public Service Commission

Executive Director's Office

211 Sower Boulevard

Frankfort, Kentucky 40602

Telephone: (502) 564-3940

All correspondence and responses to supplemental information requests should be sent to the above address as well.

Copies of this form may be obtained by visiting the Kentucky Public Service Commission website at <http://psc.ky.gov> and clicking on the Forms bullet in the Quick Reference, or by contacting George Wakim, Branch Manager, Water & Sewer Branch, at (502) 564-3940.

III. Questionnaire:

Please answer all questions completely, attach additional sheets as necessary.

1. Provide the average daily water consumption. This should include all water sold, utility water usage, and unaccounted-for-water. following information:

Average Daily Consumption: 4,176,249 GPD

2. Please provide the following information:

Total number of water storage tanks in the system: TWELVE

| | |
|-----------------------------|-----------------|
| <u>Type of Storage Tank</u> | <u>Capacity</u> |
|-----------------------------|-----------------|

See attached sheet (Water tank Storage Data)

3. Please provide a list of all large customers purchasing more than five (5) percent of the utility's average daily consumption. Also indicate which, if any, of these customers can sustain an interruption during emergencies.

| <u>Customer</u> | <u>Daily Usage</u> | <u>Storage Facility</u> | <u>Capacity</u> | <u>Interruption</u> |
|-----------------------------------|--------------------|-------------------------|------------------|---------------------|
| <u>Kentucky State Reformatory</u> | <u>754,100 gpd</u> | (x) yes () no | <u>1,000,000</u> | (x) yes () no |
| <u>City Of LaGrange</u> | <u>965,600 gpd</u> | (x) yes () no | <u>588,230</u> | () yes (x) no |

LaGrange is in the process of putting up a new tank (1,000,000)

4. Please provide a list of all critical healthcare facilities served by the system.

| <u>Facility</u> | <u>Daily Usage</u> | <u>Storage Facility</u> | <u>Capacity</u> |
|--------------------------|--------------------|-------------------------|-----------------|
| <u>Fresenius Medical</u> | <u>1,536 gpd</u> | () yes (X) no | <u>none</u> |

5. Please provide the following information:

Does the utility:

Produce water? (x) yes () no

Purchase water? () yes (x) No

OLDHAM COUNTY WATER DISTRICT WATER STORAGE TANK DATA

| NAME | TYPE | VOLUME (GAL) | OVERFLOW ELEV. | BASE ELEV. | DIAMETER | HEIGHT | HEAD RANGE | PRESSURE | 24 HOUR STORAGE VOLUME |
|-----------------|------------|----------------|----------------|------------|------------|----------|------------|----------|-------------------------------------|
| 1.5 TANK | STANDPIPE | 1,500,000 GALS | 915 | 830 | 55 FT. | 85 FT. | 85 FT. | 37 LBS | 1.5/85=(17.647)X 14=(247,058) GAL |
| CENTERFIELD | ELEVATED | 500,000 | 990 | 888 | 50 FT. | 102 FT. | 30 FT. | 44 LBS | (500,000) GAL |
| MOODY LANE | ELEVATED | 100,000 | 990 | 880 | 32 FT | 110 FT. | 21 - 4 FT | 48 LBS | (100,000) GAL |
| GREENHAVEN | STANDPIPE | 195,000 | 806 | 755 | 25.5 FT | 51 FT. | 51 FT. | 22 LBS | 0 GAL |
| GREENHAVEN | STANDPIPE | 800,000 | 806 | 755 | 52 FT. | 51 FT. | 51 FT. | 22 LBS | 0 GAL |
| OSAGE | ELEVATED | 750,000 | 990 | 825 | 65 FT. | 165 FT. | 35 FT. | 71 LBS | (750,000) GAL |
| INDUSTRIAL PARK | ELEVATED | 250,000 | 989 | 809 | 40 FT. | 180 FT. | 28 - 4 FT. | 78 LBS | (250,000) GAL |
| K. P. I. TANK | STANDPIPE | 350,000 | 988 | 893 | 25 FT. | 95 FT. | 95 FT. | 41 LBS | 350,00/95=(3,684)X 25=(92,100) GAL |
| BALLARDVILLE | ELEVATED | 250,000 | 990 | 855 | 43 - 8 FT. | 135 FT. | 31 FT. | 58 LBS | (250,000) GAL |
| LIBERTY | ELEVATED | 150,000 | 910 | 761 | 32 FT. | 149 FT. | 25 FT. | 64 LBS | (150,000) GAL |
| WESTPORT | CLEAR WELL | 2 - 1,000,000 | 481.17 | | 76-125 FT. | 15 FT. | | | 0 GAL |
| WOODLAWN | STANDPIPE | 500,000 | 912 | 878 | 50 ft. | 34 ft. | 34 ft. | 15 lbs | 0 GAL |
| WOODLAWN | STANDPIPE | 250,000 | 937 | 882 | 25 ft. | 55 ft. | 55 ft. | 24 lbs | 0 GAL |
| | | | | | | | | | TOTAL STORAGE (2,339,158) GAL |
| | | | | | | | | | 4,000,000-2,339,158=(1,660,842) GAL |
| | | | | | | | | | SHY (1,660,842) GAL |
| LAGRANGE | ELEVATED | 500,000 | 988 | 860.5 | 50 ft. | 127.5 ft | 37.5 ft. | 55 lbs | |
| ZHALE SMITH | STANDPIPE | 500,000 | 995 | 910 | 35 ft. | 85 ft. | 85 ft. | 37 lbs | |
| REFORMATORY | ELEVATED | 1,000,000 | 972.38 | 804 | 76 ft. | 168 ft. | 35 ft. | 72 lbs | |
| HERNY COUNTY | ELEVATED | 300,000 | 1075 | 897 | 43 ft. | 178 ft. | 31 ft. | 77 lbs | |

PRESSURE SHOWN IS BASE ON TANK BEING FULL
(OVERFLOW ELEVATION TO BASE ELEVATION)

If the utility purchases water, please provide the following:

Supplier

Average Amount Purchased

None

None

6. If a supplier has storage capacity or reserves storage for the benefit of your Utility, please provide the following:

Supplier

Capacity

Proximity to Master Meter

None

None

None

7. Will your supplier issue your utility a letter of this additional storage capacity specifying whether they can sustain any of your system's interruptions to ensure you adequate continuity of service? () Yes (x) No

If yes, provide a copy of the agreement or letter.

8. Please provide a technical summary of operational deficiencies of the system that are known from experience or that are indicated by hydraulic analysis. This should include a list of outages that occurred in past years, their location, the cause and duration of any outages, customer complaints, areas of low pressure, and the availability of standby equipment, repair equipment, and contractors.

Areas in the northeastern part of the Water District (hwy 146 & Jericho road) are in 900 ft. elevation the Water District floats off 990 ft. elevation. $990 - 900 = 90 \div 2.31 = 39$ lbs, plus a friction loss in about 6 miles of 6" pipe. No outages do have a hard time keeping up in the summer month (drought) with the yard sprinkling in the southern part of the county (hwy 22 & Centerfield area)

9. Please provide information on the growth potential for the system. This should include the number of new customers added per year and the possibility of extensive development (i.e. new subdivisions, businesses, etc.)

The Water District on average gets 200 to 240 new customers a year.

There is approximately 10 to 15 new subdivisions, two large businesses park on the books within the next two years

10. Please describe any planning, to date, to bring the system into compliance with Commission regulations. This should include efforts to secure financing for the construction of additional storage facilities, as well as the estimated compliance date. If no planning has taken place, please explain why.

Presently the Division of Water is reviewing plans for a 2 million gallon elevated tank that could take 18 months to 24 months to build.

IV. Signature:

I have read and completed this application, and to the best of my knowledge, all the information contained herein is true and correct.

Signed: William D. Baker Sr.

Title: Assistant Superintendent

Date: 8-24-05

Mt Vernon
Municipal Water District
P.O. Box 51, Buckner, KY 40010

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